



# GPS Speed Alert and ODO

*with Integrated Precision GPS*

Hummingbird Electronics' enhanced GPS Speed Alert provides drivers with an accurate, highly visible, fast response digital speedometer, over-speed alert and odometer in a small, easy to mount unit.

The GPS Speed Alert requires no installation or calibration and is simply connected to the vehicle through a cigarette lighter power plug.

## Powerful Performance

The GPS Speed Alert uses satellites to calculate 3-dimensional speed and heading independently of the vehicle. No calibration is required for the unit to display accurate speed and distance in kilometres or miles.

The user can choose between various displays to show speed, odometer, heading, position and battery voltage.



The unit contains an internal antenna and the only electrical connection required is via a cigarette lighter plug that can be used in 12V or 24V vehicles.

Speed and distance is displayed on a colour screen; the colour changes from green to orange as the user-settable speed-threshold is exceeded. A buzzer can be enabled to sound as an over-speed warning. The speed-threshold can be set by the user by pressing the up or down arrows on the keypad. To change the speed unit or to enable or disable the buzzer, the menu key in conjunction with an on-screen menu is used.



The unit can be mounted with a windscreen, any standard camera, bracket or RAM mount.



*Windscreen suction*



*Bracket mount*

## Features

- GPS Speed+odometer independent of vehicle
- Optional buzzer for over speed warning
- Changes colour for over speed warning
- Multi-voltage 9-36VDC
- Limit adjustable from 1-199km/h
- Internal GPS antenna
- Cigarette lighter connection
- Precision 1km/h and 10m
- Speed in km/h, mph or knots
- Low current draw
- Voltage monitoring of battery
- Fast update rate

Technical Specifications and Ordering Information			
Part number	HMSA4000	HMSA4300	HMSA4500
Mounting system	Windscreen suction	Dash mounting bracket	RAM A diamond base with 2" arm
Input voltage	Minimum 9V; maximum 36V		
Power consumption (W)	Maximum 1.2W (100mA @ 12V; 50mA @ 24V)		
Dimensions (mm)	70mm (width), 50mm (height), 18mm (depth)		
Acquisition time, power-up	Less than 38s (50% of the time), less than 42s (90% of the time)		
Resolution	Distance: hundredth of a unit (km/mi), speed: 1unit (km/h, mi/h)		